

Amendments to the Claims**Claims 1-72 (Canceled)**

Claim 73 (New): A method of producing a vaccine, comprising:
constructing a plasmid vector or DNA fragment by operably linking a DNA sequence
encoding an immunogenic viral antigen to a plant functional promoter capable of
directing expression of said viral antigen in a plant;
transferring the plasmid vector or DNA fragment into a cell of said plant;
regenerating a transgenic plant from said cell;
harvesting a portion of said regenerated transgenic plant, said portion containing said
expressed immunogenic viral antigen and
purifying said expressed antigen so that most of the plant material is removed.

Claim 74 (New): The method of claim 73 wherein said plant is tomato.

Claim 75 (New): The method of claim 73 wherein said plant is potato.

Claim 76 (New): The method of claim 73 wherein the administering of a vaccine
comprises a parenteral introduction of said vaccine into said mammal.

Claim 77 (New): The method of claim 73 wherein the administering of a vaccine
comprises a nonparenteral introduction of said vaccine into said mammal.

Claim 78 (New) The method of claim 77 wherein said nonparenteral introduction of
said vaccine into said mammal comprises an oral introduction of said vaccine into said
mammal.